Release notes for ENDF/B Development n-003_Li_006 evaluation

April 26, 2017

- `fizcon` Warnings:
  1. 2-body MT105 OK for 6Li: 6Li(n,t)a
     MAT= 325, MF= 6, MT=105 (1): Is 2-body rxn.

```
 ERROR(S) FOUND IN MAT= 325, MF= 6, MT=105
    DISCRETE 2-BODY LAW NOT PERMITTED FOR MT= 105
```

  2. 2-body MT105 OK for 6Li: 6Li(n,t)a
     MAT= 325, MF= 6, MT=105 (2): Is 2-body rxn.

```
 ERROR(S) FOUND IN MAT= 325, MF= 6, MT=105
No problems to report
```

- `fudge-4.0` Warnings:
  1. Cross section does not match sum of linked reaction cross sections
     crossSectionSum label 0: total (Error # 0): CS Sum.

```
WARNING: Cross section does not match sum of linked reaction cross sections! Max diff: 0.50%
```

- `fudge-4.0` Errors:
  1. Calculated and tabulated Q values disagree.
     reaction label 35: H3 + He4_s (Error # 0): Q mismatch

```
WARNING: Calculated and tabulated Q-values disagree: 3250419.569005013 eV vs 4783649. eV!
```

- `njoy2012` Warnings:
  1. This nuclide has no URR and NJOY is upset about it
     unresr...calculation of unresolved resonance cross sections (0): No URR

```
 ---message from unresr---mat  325 has no resonance parameters
                           copy as is to nout
```

  2. The discrete photon data in MF=12 may be incomplete for the specified MT.
     heatr...prompt kerma (0): HEATR/hconvr (1)

```
 ---message from hconvr---mf12, mt56 may be missing
                           discrete photon data may be incomplete
```

  3. This nuclide has no URR and NJOY is upset about it
     purr...probabalistic unresolved calculation (0): No URR

```
 ---message from purr---mat  325 has no resonance parameters
                           copy as is to nout
```

  4. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!
     groupr...compute self-shielded group-averaged cross-sections (0): GROUPR/conver (0)

```
---message from conver---cannot do complete particle production for mt= 24
                         only mf4/mf5 provided
```

5. Discrete photon data may be incomplete.
   acer...monte carlo neutron and photon data (0): ACER/convr (4)

```
---message from convr--- mf12, mt56 may be missing
                         discrete photon data may be incomplete
```